JVC®

The Perfect Experience

D-ILA® HD Projection System
(3-Chip D-ILA® Projector + Digital Video Processor)

DLA-HD2K

A Movie Theatre @ Home

Extreme HD! 1920 x 1080 Pixels Native Resolution.

For Those Unwilling to Compromise, Enjoy Quality Beyond Description with Extreme HD Resolution.

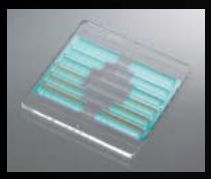
Three Native 1920 x 1080 D-ILA Chips

Thanks to the newly developed HD D-ILA devices, the native resolution of the DLA-HD2K is 1920 x 1080, the extreme HD resolution available today for home theatre projector applications. This makes the system suitable not only for high-end home theatre use but also for critical viewing venues such as museums and post-production screening rooms.

D-ILA: The Most Advanced LCOS Technology Available

JVC pioneered the use of LCOS (Liquid Crystal on Silicon) technology and is the world's leading supplier of LCOS projectors. JVC's patented D-ILA chips are the most highly refined form of LCOS, offering unique performance characteristics not found elsewhere. The DLA-HD2K also boasts optimum colour illumination and a newly developed projection lens for its optical system that is explained below. This combination of advanced technologies allows the DLA-HD2K to realise a high contrast ratio of 2000:1 and breathtaking colour reproduction.

- **Optimum Colour Illumination** is achieved from an economical ultra high-pressure NSH lamp that uses illumination optics to optimise the f-number for each primary colour. This exclusive JVC process ensures optimum contrast of individual colours and a D65 colour temperature that provides vivid, natural-looking colour reproduction.



- **Newly Developed Projection Lens** employs a 4-group, 13-layer 100% glass lens with an aluminium tube and anti-flare finish. This high-quality construction embodies JVC's no-compromise approach to answering the performance potential of HD-compatibility. The optimised lens aperture is also carefully calibrated to match the zoom position.

Cost-effective NSH Lamp

To ensure lower running costs, the DLA-HD2K uses a 250W ultra high-pressure mercury NSH lamp, which should be replaced after approximately 2,000 hours of operation. And in most applications, the homeowner can easily change the lamp without removing the projector from its mounts.

JVC Exclusive 3-Chip D-ILA (Direct Drive Image Light Amplifier)

■ **Three D-ILA chips:** JVC's exclusive 3-chip D-ILA technology produces rich, natural colours without the annoying flicker or "rainbow effect" that plagues single-panel projectors. Images are as smooth as film, boasting incredible detail and vibrant, breathtakingly natural colours.

■ **Cinema-quality picture with no visible grid:** There is no visible grid or "screen door effect" with JVC's D-ILA. Since the gaps between pixels are not noticeable, the picture is extremely smooth. You can enjoy the benefits of both film-like resolution and accurate reproduction of natural colours.

■ **Superior Colour Reproduction:** JVC's unique optical engine produces rich, natural colors with smooth gradations and low noise. By setting the colour temperature at the D65 standard, source media can be faithfully reproduced with the same gradations as the original picture. D65 colour temperature is equal to 6500 Kelvin, which is the home theatre standard for the optimal amount of light to recreate daylight. This makes all colour gradations natural and consistent, including absolute black and absolute white. Furthermore, JVC's exclusive AG* technology produces highly accurate gradations with low noise, particularly in darker areas of less than 20% brightness.

** Analogue gradation*

■ **True black reproduction:** One important characteristic of D-ILA devices is that the crystals are aligned vertically, meaning that the D-ILA technology can reproduce blacks that are truly black. It also offers a uniform response, irrespective of brightness, so it can display a wide range of intermediate tones.

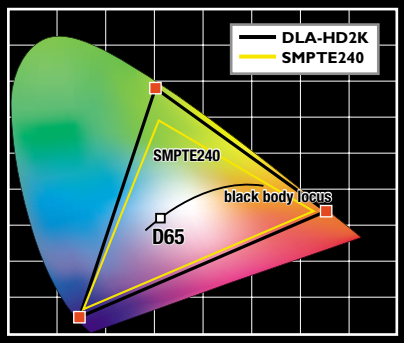
To download HD2K Gamma Customise Software from our website, access the following URL:
http://www.xxx.xxx

● Comparison of gradation characteristics

D-ILA: Accurate colours with absolute white and black

Conventional projector (bluish white and reddish black)

● DLA-HD2K Colour Coordinates

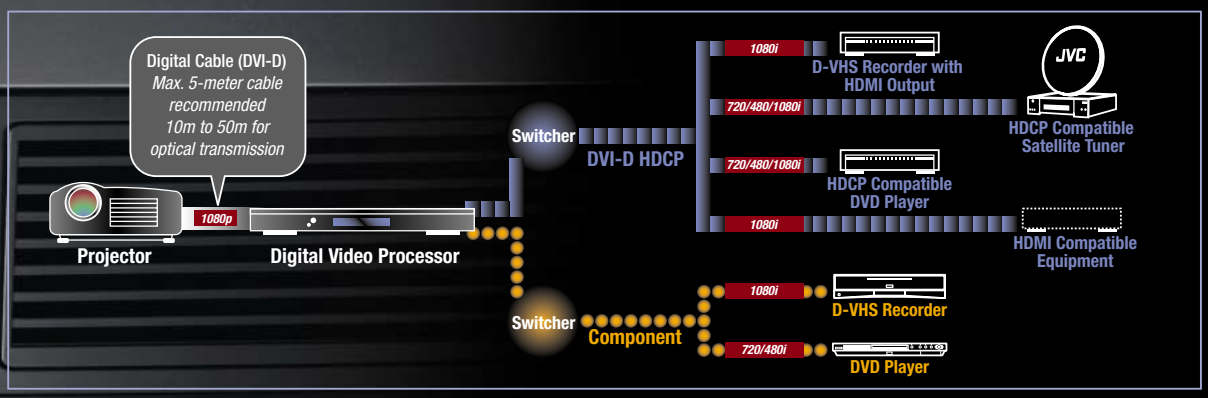


Exclusive Digital Video Processor

The DLA-HD2K is equipped with a digital video processor co-developed with Faroudja, a company renowned worldwide for creating powerful processing technologies. This exclusive JVC digital video processor can be connected to various sources including 480i, 480p and 576i SD signals as well as 720p and 1080i HD signals. Faroudja's colour matrixing provides accurate colour profiles for NTSC and HDTV, allowing the processor to convert standard analogue and digital DVI video signals to a high-resolution digital video signal that can be transmitted via the DVI-D connector to the projector and is fully HDCP compliant. This processor also allows for detailed video adjustment to suit viewer preferences and user setup between it and the projector can be profiled. Furthermore, the processor features motion adaptive de-interlacing with DCDi and 3-2 pull-down technology to ensure error-free progressive signals.

Convenient, Space-saving 2-piece Design

Unlike bulky one-piece units, the projector head of the DLA-HD2K is only 298mm W x 134mm H x 360mm D and weighs a mere 6.2kg. This smaller size allows for less conspicuous and more flexible installation as well as easier ceiling mounting. The projector head is connected to a standard rack-mountable electronics unit by a single zero-loss digital cable (DVI-D) transmitting the 1080/60P signal. The projector head and electronics unit can be separated by up to 5 meters — an ideal configuration that keeps the cabling to other electronic components to an absolute minimum while preserving full digital quality at the projector head.



Infrared Remote Controls

Remote controls employ discrete IR commands for common features and have discrete buttons for easy capture of IR data to 3rd party control systems.

SPECIFICATIONS

PROJECTOR

Image Device	3-chip D-ILA® (0.82-inch diagonal)
Aspect Ratio	16:9
Screen size/Throw Distance	1.6m to 10.5m (16:9)/40" to 200" (16:9)
Resolution	1920 x 1080 pixels (16:9) x 3 chips; Total resolution: 6,220,800 pixels
Projection Lens	1.3X zoom lens (1:8 ~ 2.35:1, manual zoom/ manual focus, 50% offset)
Lamp	250W NSH (Model No. BHL5006-S)
Contrast Ratio	2000:1
Colour Temperature	D65/user selectable 1/user selectable 2
Gamma Control	Normal, A, B, and CUSTOM

TERMINALS

Input	Digital x1 (HDCP compatible DVI-D)
Serial Control	RS-232C x1

GENERAL

Power Requirement	100V AC, 50/60Hz
Power Consumption	350W (5W at standby)
Calorific Power	1260kJ/h (1194 Btu)
Dimensions (W x H x D)	298 x 134 x 360mm (11-3/4" x 5-1/4" 14-3/16") without protrusions
Weight	6.2kg (13.66 lbs)

CONTROL TERMINALS

Serial Control	1 source (RS-232C)

DIGITAL VIDEO PROCESSOR

Input Signals	480i (H: 15.7kHz, V: 29.97Hz), 480p (H: 31.5kHz, V: 59.97Hz) 576i (H: 15.6kHz, V: 25.00Hz), 576p (H: 31.3kHz, V: 50.00Hz) 720p (H: 37.5kHz, V: 50.00Hz), 720p (H: 45.0kHz, V: 59.97Hz) 1080i (H: 28.1kHz, V: 25.00Hz), 1080i (H: 33.7kHz, V: 29.97Hz)

INPUT TERMINALS

RGBC (BNC)	x1
DVI (HDCP compatible DVI-D)*	x1 *HDMI compliant with optional adaptor cable
Video (BNC)	x1
Y/C (Mini DIN)	x1
YPbPr (BNC)	x1
Serial Control	1 source (RS-232C)

OUTPUT TERMINAL

DVI-D (HDCP compatible DVI-D)*	x1

*Terminals other than DVI are not used for D-ILA HD Projection System

CONTROL TERMINALS (Output active only when DVI-D output is not enabled.)

Remote	1 source
Trigger	1 source
Serial Output	1 source (RS-232C)

GENERAL

Power Requirement	100V AC, 50/60Hz
Power Consumption	35W
Calorific Power	126kJ/h (119 Btu)
Dimensions (W x H x D)	438 x 45 x 303mm (17-1/4" x 1-3/4" x 11-16/16") without protrusions
Weight	6.3kg (14 lbs)

CONNECTORS

Projector

Digital Video Processor

ACCESSORIES

OPTIONAL XX-XXXX Wide Conversion Lens

PROVIDED Projector: Instructions, Warranty Card, Power Cord, DVI-D Cable (5m), Remote Control (RM-MH2K), Two Size AAA Batteries

Processor: Instructions, Power Cord, Remote Control, Two Size AA Batteries, Warranty Card

THROW DISTANCE vs. SCREEN WIDTH

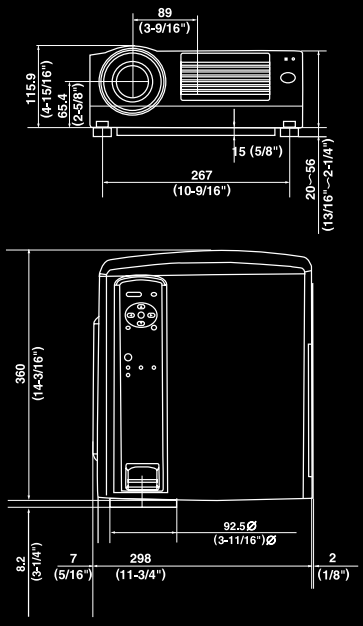
Screen Size			Throw Distance			
Diagonal	Width		Wide		Tele	
in.	mm	ft.	m	ft.	m	ft.
40.5	897	2.94	1.600	5.24	2.093	6.86
82	1815	5.96	3.274	10.74	4.268	14.00
92	2037	6.68	3.677	12.06	4.792	15.72
100	2214	7.26	4.000	13.12	5.212	17.09
110	2435	7.99	4.403	14.44	5.736	18.81
123	2723	8.93	4.928	16.16	6.417	21.05
135	2989	9.81	5.412	17.75	7.046	23.11
150	3321	10.89	6.017	19.74	7.832	25.69
160	3542	11.62	6.420	21.06	8.357	27.41
165	3653	11.98	6.622	21.72	8.619	28.27
180	3985	13.07	7.227	23.71	9.405	30.85
192	4250	13.95	7.711	25.29	10.034	32.91
200	4428	14.53	8.034	26.35	10.453	34.29

Recommendable distance is between 2m to 8m (6.6ft to 26.2ft)

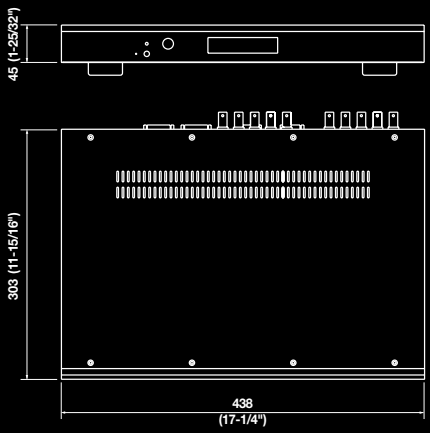
DIMENSIONS

(Unit: mm/inches)

Projector



Digital Video Processor



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